

# Amit Mahajan

## List of Publications by Year in descending order

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52  
papers

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686830

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752256

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all docs

52  
docs citations

52  
times ranked

174  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear stability analysis of double diffusive convection in a fluid saturated porous layer with variable gravity and throughflow. Applied Mathematics and Computation, 2022, 425, 127060.	1.4	2
2	Unconditional nonlinear stability for double diffusive convection with temperature and pressure dependent viscosity. Heat Transfer, 2021, 50, 1523-1542.	1.7	7
3	Effect of nonlinear temperature and concentration profiles on the stability of a layer of fluid with chemical reaction. Canadian Journal of Physics, 2021, 99, 367-377.	0.4	6
4	Stability of a chemically reacting double diffusive fluid layer in a porous medium. Heat Transfer, 2021, 50, 6148-6163.	1.7	10
5	Effect of Slip Boundary Conditions on Double Diffusive Convection in a Fluid Layer. International Journal of Applied and Computational Mathematics, 2021, 7, 1.	0.9	2
6	Effects of spatially varying gravity, temperature and concentration fields on the stability of a chemically reacting fluid layer. Journal of Engineering Mathematics, 2020, 125, 23-45.	0.6	13
7	Linear and weakly nonlinear analysis of a ferrofluid layer for an LTNE model with variable gravity and internal heat source. Journal of Engineering Mathematics, 2020, 124, 11-39.	0.6	5
8	Linear and weakly nonlinear stability analysis on a rotating anisotropic ferrofluid layer. Physics of Fluids, 2020, 32, .	1.6	19
9	Penetrative convection in a fluid saturated Darcy-Brinkman porous media with LTNE via internal heat source. Nonlinear Engineering, 2019, 8, 546-558.	1.4	9
10	Nonlinear stability analysis of a fluid saturated anisotropic Darcy-Brinkman medium with internal heat source. Applied Mathematics and Computation, 2019, 358, 216-231.	1.4	3
11	Double-diffusive convection in a magnetic nanofluid layer with cross diffusion effects. Journal of Engineering Mathematics, 2019, 115, 67-87.	0.6	16
12	Thermomagnetic convection in a layer of magnetic nanofluid saturating porous medium with magnetic field dependent viscosity. International Journal of Nanoparticles, 2019, 11, 181.	0.1	4
13	Stability analysis of a couple-stress fluid saturating a porous medium with temperature and pressure dependent viscosity using a thermal non-equilibrium model. Applied Mathematics and Computation, 2019, 340, 15-30.	1.4	8
14	Penetrative convection due to absorption of radiation in a magnetic nanofluid saturated porous layer. Studia Geotechnica Et Mechanica, 2019, 41, 129-142.	0.2	1
15	The onset of penetrative convection stimulated by internal heating in a magnetic nanofluid saturating a rotating porous medium. Canadian Journal of Physics, 2018, 96, 898-911.	0.4	8
16	Penetrative Internally Heated Convection in Magnetic Fluids. Defect and Diffusion Forum, 2018, 387, 373-384.	0.4	6
17	Convection in a magnetic nanofluid saturating a porous medium under the influence of a variable gravity field. Engineering Science and Technology, an International Journal, 2018, 21, 439-450.	2.0	10
18	Penetrative convection in couple-stress fluid via internal heat source/sink with the boundary effects. Journal of Non-Newtonian Fluid Mechanics, 2018, 260, 133-141.	1.0	8

#	ARTICLE	IF	CITATIONS
19	The onset of convection in a magnetic nanofluid layer with variable gravity effects. Applied Mathematics and Computation, 2018, 339, 622-635.	1.4	21
20	Linear and Nonlinear Stability Analysis of a Hortonâ€“Rogersâ€“Lapwood Problem with an Internal Heat Source and Brinkman Effects. Transport in Porous Media, 2017, 117, 261-280.	1.2	14
21	On the Stability of Penetrative Convection in a Couple-Stress Fluid. International Journal of Applied and Computational Mathematics, 2017, 3, 3745-3758.	0.9	8
22	Penetrative convection in magnetic nanofluids via internal heating. Physics of Fluids, 2017, 29, .	1.6	22
23	Anisotropic porous penetrative convection for a local thermal non-equilibrium model with Brinkman effects. International Journal of Heat and Mass Transfer, 2017, 115, 235-250.	2.5	13
24	Linear Stability Analysis of Penetrative Convection via Internal Heating in a Ferrofluid Saturated Porous Layer. Fluids, 2017, 2, 22.	0.8	4
25	Conditional stability for thermal convection in a rotating couple-stress fluid saturating a porous media with temperature- and pressure-dependent viscosity using a thermal non-equilibrium model. Journal of Non-Equilibrium Thermodynamics, 2014, 39, .	2.4	8
26	CONVECTION IN MAGNETIC NANOFUIDS IN POROUS MEDIA. Journal of Porous Media, 2014, 17, 439-455.	1.0	16
27	Convection in rotating magnetic nanofluids. Applied Mathematics and Computation, 2013, 219, 6284-6296.	1.4	19
28	Conditional stability for thermal convection in a rotating couple-stress fluid saturating a porous medium with temperature and pressure dependent viscosity. Journal of Geophysics and Engineering, 2013, 10, .	0.7	6
29	Convection in Magnetic Nanofluids. Journal of Nanofluids, 2013, 2, 147-156.	1.4	5
30	BRINKMAN FLOW IN COUPLE-STRESS FLUIDS. Special Topics and Reviews in Porous Media, 2012, 3, 215-219.	0.6	0
31	A nonlinear stability analysis of a rotating double-diffusive magnetized ferrofluid. Applied Mathematics and Computation, 2011, 218, 2785-2799.	1.4	9
32	Onset of Darcyâ€“Brinkman Ferroconvection in a Rotating Porous Layer Using a Thermal Non-Equilibrium Model: A Nonlinear Stability Analysis. Transport in Porous Media, 2011, 88, 421-439.	1.2	11
33	Stability of magnetic fluid motions in a saturated porous medium. Zeitschrift Fur Angewandte Mathematik Und Physik, 2011, 62, 529-538.	0.7	6
34	Global stability for thermal convection in a couple-stress fluid. International Communications in Heat and Mass Transfer, 2011, 38, 938-942.	2.9	36
35	EFFECT OF SUSPENDED PARTICLES ON MARGINAL STABILITY OF A DOUBLE-DIFFUSIVE MAGNETIZED FERROFLUID WITH INTERNAL ANGULAR MOMENTUM. Chemical Engineering Communications, 2010, 197, 1553-1570.	1.5	0
36	Onset of Darcyâ€“Brinkman double-diffusive convection in a magnetized ferrofluid layer using a thermal non-equilibrium model: a nonlinear stability analysis. Journal of Geophysics and Engineering, 2010, 7, 417-430.	0.7	14

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37	NONLINEAR FERROCONVECTION IN A POROUS LAYER USING A THERMAL NONEQUILIBRIUM MODEL. Special Topics and Reviews in Porous Media, 2010, 1, 105-121.	0.6	12
38	The Effect of Suspended Particles on Marginal Stability of Magnetized Ferrofluid with Internal Angular Momentum. Heat Transfer Research, 2010, 41, 167-186.	0.9	0
39	A Nonlinear Stability Analysis for Thermoconvective Magnetized Ferrofluid Saturating a Porous Medium. Transport in Porous Media, 2009, 76, 327-343.	1.2	33
40	A nonlinear stability analysis for rotating magnetized ferrofluid heated from below saturating a porous medium. Zeitschrift Fur Angewandte Mathematik Und Physik, 2009, 60, 344-362.	0.7	14
41	A nonlinear stability analysis of a double-diffusive magnetized ferrofluid with magnetic field-dependent viscosity. Journal of Magnetism and Magnetic Materials, 2009, 321, 2810-2820.	1.0	11
42	A nonlinear stability analysis in a double-diffusive magnetized ferrofluid with magnetic-field-dependent viscosity saturating a porous medium. Canadian Journal of Physics, 2009, 87, 659-673.	0.4	5
43	A Nonlinear Stability Analysis of a Rotating Double-Diffusive Magnetized Ferrofluid Saturating a Porous Medium. Heat Transfer Research, 2009, 40, 351-378.	0.9	10
44	A Nonlinear Stability Analysis for Thermoconvective Magnetized Ferrofluid with Magnetic-Field-Dependent Viscosity Saturating a Porous Medium. Journal of Porous Media, 2009, 12, 667-682.	1.0	4
45	Thermal convection in micropolar ferrofluid in the presence of rotation. Journal of Magnetism and Magnetic Materials, 2008, 320, 316-324.	1.0	42
46	A nonlinear stability analysis for rotating magnetized ferrofluid heated from below. Applied Mathematics and Computation, 2008, 204, 299-310.	1.4	17
47	Thermoconvective magnetized ferrofluid with internal angular momentum saturating a porous medium: A nonlinear stability analysis. Applied Mathematics and Computation, 2008, 205, 403-416.	1.4	6
48	A nonlinear stability analysis for thermoconvective magnetized ferrofluid with magnetic field dependent viscosity. International Communications in Heat and Mass Transfer, 2008, 35, 1281-1287.	2.9	14
49	A nonlinear stability analysis in a double-diffusive magnetized ferrofluid layer saturating a porous medium. Journal of Geophysics and Engineering, 2008, 5, 311-322.	0.7	6
50	A nonlinear stability analysis for magnetized ferrofluid heated from below. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2008, 464, 83-98.	1.0	60
51	A Nonlinear Stability Analysis of a Double-Diffusive Magnetized Ferrofluid. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2008, 63, 797-807.	0.7	4
52	Effects of vertical throughflow and variable gravity field on double diffusive convection in a fluid layer. Ricerche Di Matematica, 0, , 1.	0.6	4